IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A continuously variable transmission for transmitting a rotation of a primary pulley to a secondary pulley through a drive belt and continuously changing a speed ratio between the pulleys, the continuously variable transmission comprising:

a fan blade provided to at least one of said primary pulley and said secondary pulley;

a case rotatably accommodating said one of the pulleys;

a shroud wall formed about a circumference of said one of the pulleys;

a scroll surface formed on said shroud wall and said case about a circumference of said one of the pulleys;

an intake port for introducing a cooling air into said case; and

a clearance in a radial direction of said one of the pulleys between an outermost end of said fan blade and said scroll surface increases with a rotational direction of said fan blade,

wherein said shroud wall is positioned as to cover the outermost end of said fan blade such that a flow of said cooling air radially exiting from said outermost end of said fan blade is channeled by said shroud wall until reaching a case defined portion of said scroll surface, and

wherein said shroud wall has a laterally extending interior surface which promotes the lateral passage of said cooling air exiting from said intake port into contact with said fan blade.

2. (Previously Presented) A continuously variable transmission according to claim 1, further comprising:

an exhaust port for exhausting the cooling air from said case,

wherein the intake and exhaust ports are formed in said case.

3. (Previously Presented) A continuously variable transmission according to claim 1, further comprising:

an unidirectional airflow plate provided in said case and making unidirectional the cooling air introduced onto said scroll surface to said rotational direction of said fan blade.

4. (Previously Presented) A continuously variable transmission according to claim 3, wherein

said unidirectional airflow plate is attached onto said scroll surface along said rotational direction of said fan blade.

5. (Previously Presented) A continuously variable transmission according to claim 1, wherein said clearance gradually increases over about a quarter of said one of pulleys.

6. (Previously Presented) A continuously variable transmission according to claim 1, further comprising:

an intake region for intaking said cooling air into said fan blade, wherein

said clearance gradually increases from said intake region.

7. (Previously Presented) A continuously variable transmission according to claim 6, wherein said intake port is formed near said intake region.

8. (Previously Presented) A continuously variable transmission according to claim 1, further comprising:

a discharge region for discharging a cooling air from said fan blade, wherein

said clearance gradually increases toward said discharge region.

9. (Canceled).

10. (Previously Presented) A continuously variable transmission according to claim 1, wherein said scroll surface is formed on an inner surface of said case.

11. (Previously Presented) A continuously variable transmission according to claim 1, wherein said scroll surface is formed along where said one of pulleys and said drive belt contact to each other.

12. (Previously Presented) A continuously variable transmission according to claim 1, wherein said shroud wall is arranged independently from an inner surface of said case extending along said circumference of said one of pulleys.

13. (Canceled).

14. (Previously Presented) A continuously variable transmission according to claim 1, wherein said shroud wall extends out from an inner surface of said case in forming said scroll surface.

15. (Previously Presented) A continuously variable transmission according to claim 1, wherein said shroud wall has a base provided on an interior surface of said case and a free end.

16. (Previously Presented) A continuously variable transmission according to claim 1, wherein said shroud wall and case represent a combination that is monolithic.

17. (Previously Presented) A continuously variable transmission according to claim 1, wherein said shroud wall curves about said one of the pulleys so as to extend within an interior region of a loop path defined by said belt and such that a free end of said shroud wall is located in a region of minimum spacing between said pulleys.

18. (Previously Presented) A continuously variable transmission according to claim 1, wherein an interior surface of said case extends to opposite sides of said shroud wall so as to have said shroud wall increase an amount of scroll surface conformance to a rotation travel path of an outer surface of said one of the pulleys.

19. (Previously Presented) A continuously variable transmission according to claim 1, wherein said shroud wall extends radially inward relative to an interior surface portion of said case from which said shroud wall extends.

20. (Previously Presented) A continuously variable transmission according to claim 11 wherein said shroud wall has a curvature which follows along a region of said one of the pulleys which region includes a first sub-region wherein said pulley is in contact with the said drive belt and a second sub-region wherein said pulley is free from contact with said drive belt.

21. (Previously Presented) A continuously variable transmission according to claim 1, further comprising:

an intake region for intaking the cooling air into said fan blade, wherein said intake region is positioned such that air exiting said intake port is directed laterally into contact with said one of the pulleys at a region located between radial interior and exterior edges of said fan blade.

22. (Currently Amended) A continuously variable transmission according to claim 1, wherein said scroll surface on said shroud wall and said case is continually formed by way of an interior surface of said shroud wall extending continuously into an interior surface of said case.

23. (Previously Presented) A continuously variable transmission for transmitting a rotation of a primary pulley to a secondary pulley through a drive belt and continuously changing a speed ratio between the pulleys, the continuously variable transmission comprising:

a fan blade provided to at least one of said primary pulley and said secondary pulley;

a case rotatably accommodating said one of the pulleys;

a shroud wall formed about a circumference of said one of the pulleys;

a scroll surface formed on said shroud wall and said case about a circumference of said one of the pulleys;

an intake port for introducing a cooling air into said case; and

a clearance in a radial direction of said one of pulleys between an outermost end of said fan blade and said scroll surface increases with a rotational direction of said fan blade,

wherein said intake port feeds cooling air initially into said case at a position adjacent said fan blade and such that said cooling air exiting from said intake port is laterally directed into contact with said fan blade, and

wherein said shroud wall has a laterally extending interior surface which promotes the lateral passage of said cooling air exiting from said intake port into contact with said fan blade.

24. (Previously Presented) A continuously variable transmission according to claim 23, further comprising:

an intake region for intaking the cooling air into said fan blade, wherein said intake region is positioned such that the cooling air exiting said intake port is directed laterally into contact with said one of the pulleys at a region located between radial interior and exterior edges of said fan blade.

25. (Currently Amended) A continuously variable transmission according to claim 23, wherein the scroll surface on said shroud wall and said case is continually formed by way of an interior surface of said shroud wall extending continuously into an interior surface of said case.

26. (Previously presented) A continuously variable transmission according to claim 23, wherein said shroud wall extends laterally over said outermost end of said fan blade.

27. (Previously presented) A continuously variable transmission according to claim 23, wherein said shroud wall is positioned as to completely cover over said outermost end of said fan blade.

28. (Currently Amended) A continuously variable transmission for transmitting a rotation of a primary pulley to a secondary pulley through a drive belt and continuously changing a speed ratio between the pulleys, the continuously variable transmission comprising:

a fan blade provided to at least one of said primary pulley and said secondary pulley;

a case rotatably accommodating said one of the pulleys;

a shroud wall formed about a circumference of said one of the pulleys;

a scroll surface formed on said shroud wall and said case about a circumference of said one of the pulleys;

an intake port for introducing a cooling air into said case; and

a clearance in a radial direction of said one of pulleys between an outermost end of said fan blade and said scroll surface increases with a rotational direction of said fan blade,

wherein said scroll surface represents a continuous air flow channeling surface comprised of an interior surface of said shroud wall and an interior surface of a portion of said casing, with the interior surface of said shroud wall and the interior surface of the portion of said casing being continually formed by way of the interior surface of said shroud wall extending continuously into the interior surface of the portion of said casing.

29. (Previously Presented) A continuously variable transmission according to claim 28, wherein said shroud wall has a flow channeling interior surface which laterally extends, in an axial direction in common with an axial extension direction of a rotation axis of said one of the pulleys, across a radially peripheral outer edge of said fan blade as to fully cover over that outer edge of said fan blade.

30. (Previously Presented) A continuously variable transmission according to claim 28, wherein said shroud wall extends circumferentially about said pulley as to have a free end that falls internally between said pulleys and inward of a loop path of said drive belt.